

CLAIMS

What is claimed is:

- 1. A swinging mechanism for a lawn sprinkler, including a sprinkling control unit made up of a gear-operated transmission mechanism, a limiting connector, a water inlet connector, a water outlet connector, a main driving wheel, and an adjusting seat; the present invention being characterized by that,
—a flow switch plate, a switch device, and a retaining pole being mounted to the side of the adjusting seat corresponding to the water inlet connector wherein the switch device, located to one end of the retaining pole, shares the same axis and is rotated in the same direction with the flow switch plate so as to precisely move the flow switch plate therewith for switching the angle of water discharge.**
- 2. The swinging mechanism for a lawn sprinkler as claimed in Claim I wherein the adjusting seat has a limiting groove indented at one side for the switch device to be adapted therein.**
- 3. The swinging mechanism for a lawn sprinkler as claimed in Claim II wherein the limiting groove of the adjusting seat thereof has a coupling rod with a pivoting hole disposed therein protruding at the center thereof for the flow switch plate to be joined thereto in sleeve engagement and the retaining pole to be led there-through at one end.**
- 4. The swinging mechanism for a lawn sprinkler as claimed in Claim II wherein the limiting groove of the adjusting seat thereof has protruded guide blocks, and symmetrical upper/lower water orifices properly disposed at preset**

areas thereon.

5. The swinging mechanism for a lawn sprinkler as claimed in Claim I wherein the switch device is made of a frame body.

6. The swinging mechanism for a lawn sprinkler as claimed in Claim V wherein the switch device has a plurality of resilient ribs extending centripetally at the inner side thereof, two indented control sections symmetrically cut at both arc lateral sides thereof, and a pair of inverted U-shaped resilient sections protruding at the inner upper and lower sides thereof.

7. The swinging mechanism for a lawn sprinkler as claimed in Claim I wherein the retaining pole is made up of a pivoting rod with a squared coupling end disposed at one side, and an adjusting serrated section of larger diameter disposed at the other end thereof.

8. The swinging mechanism for a lawn sprinkler as claimed in Claim VI wherein the resilient ribs of the switching device is abutted against the adjusting serrated section of the retaining pole by the ends in meshing location thereby.

9. The swinging mechanism for a lawn sprinkler as claimed in Claim VI wherein the control sections of the switch device can precisely control the rotation and location of the flow switch plate thereof.

10. The swinging mechanism for a lawn sprinkler as claimed in Claim VI wherein a stop block is protruded at the central top of the inverted U-shaped

resilient section of the switch device thereof correspondingly matched and abutted against one side of the protruded guide block of the adjusting seat thereof.

11. The swinging mechanism for a lawn sprinkler as claimed in Claim VII wherein the squared coupling end of the retaining pole is led through the pivoting hole of the adjusting seat to be inserted to a squared coupling hole disposed at one side of the gear-operated transmission mechanism thereof.

12. The swinging mechanism for a lawn sprinkler, including a sprinkling control unit made up of a gear-operated transmission mechanism, a limiting connector, a water inlet connector, a water outlet connector, a main driving wheel, and an adjusting seat with a flow switch plate, a switch device and a retaining pole adapted therein wherein a sprinkler body of various designs can be transversely mounted to one end of the water outlet connector thereof.

13. The swinging mechanism for a lawn sprinkler, including a sprinkling control unit made up of a gear-operated transmission mechanism, a limiting connector, a water inlet connector, a water outlet connector, a main driving wheel, and an adjusting seat with a flow switch plate, a switch device and a retaining pole adapted therein wherein the sprinkling control unit can also be assembled into a vertical type with a sprinkler body of various designs mounted on top of the water outlet connector thereof and swung vertically back and forth thereon.